



CHICOPEE BOARD OF ALDERMEN
PUBLIC WORKS COMMITTEE

ACCEPTED

MEMBERS

Frederick Krampits, Chairman
Chuck Swider, Vice-Chairman
Dino Brunetti
Ron Belair
Jean Croteau

MINUTES
April 14th, 2009

The following are the minutes of a public hearing held Tuesday, April 14th, 2009 at 7:00 PM at City Hall, Aldermanic Chambers, 4th floor, City Hall Annex.

Members Present Krampits, Swider, Brunetti, Croteau

Members Absent Belair

Also Present Councilor Zygarowski (At-Large), Councilor Tillotson (At-Large), Councilor Vieau (Ward 3), Councilor McLellan (Ward 6), Keith Rattell (City Clerk), Chris Nolan (Mayor's Special Projects Manager), Tom Hamel (Chief Operator Waste Water), Stanley Kulig (DPW Superintendent), Lisa Sanders (Health Director), Christopher Keroack (Board of Health), Janet Ely (Board of Health), Joe Keble (Sewer Commission), Tiffany Labrie (Tighe and Bond)

The meeting was called to order at 7:30 PM.

ITEM #1

ORDERED THAT the Health Director appear before the Public Works Committee to discuss the test shipments of municipal solid waste

Councilor McLellan stated this is not stopping the bird population. It has doubled, even tripled.

Lisa Sanders stated trucks go in covered, like all other vehicles and does not see the birds

Councilor McLellan stated it is this waste that's making new birds come around. He lives there and seeing the birds every day. He stated they are hanging around the neighborhoods; telephone wires etc. and Lisa should try to look around there instead of just the landfills. He also stated if this doesn't get fixed soon imagine what it will be like when the warmer weather comes around

Councilor Swider stated if the birds are not in the landfill, what are the birds looking for in the neighborhoods

Councilor McLellan stated they wait around in the neighborhoods until the landfills close then they go in and eat

Lisa Sanders asked if they want her to modify her findings and look more into the neighborhoods and not just the landfills then

Councilor McLellan stated yes, there are more birds because of this waste that were not here last year.

Keith Rattell said he can back up Councilor McLellan and stated that there are a lot of birds and turkey vultures and although the landfill has had problems with birds before it is an even larger problem now

Councilor Croteau asked once the waste is disposed is it then buried?

Lisa Sanders stated the waste is buried immediately after being disposed

Councilor Croteau asked if it was possible Lisa visit the landfills on a weekend

Lisa Sanders answered there would be no problem with that

Councilor Brunetti asked he the Health Dept. would need and outside source of help

Lisa Sanders stated they already hired 2 outside sources and she also stated she was unaware of the turkey vultures but will keep a very close eye out for them

Councilor Zygarowski asked is she received any complaint from the base

Lisa Sander responded that she has not received any calls

Councilor Swider asked if the birds are increasing on the base as well

Councilor McLellan stated he hasn't talked to them in about a month but knows they have a problem with the birds and have multiple ways on making sure they stay away from planes such as horns etc. He also stated he will get in touch with them tomorrow morning for information.

Motion made by Councilor Croteau and Seconded by Councilor Brunetti for the Health Department to monitor birds in the immediate neighborhood of landfill once a week and a weekend inspection at land fill itself.

Motion passed. Committee Vote: 4-0 favorable

Item #2

ORDERED THAT the Public Works Committee meet with the Department of Public Works and the City's consulting engineers to discuss the City's Long Term Control Plan

Attached please find copy of Slide Show presented by Tiffany Labrie from Tighe & Bond Consulting Engineers and Environmental Specialists.

Motion made by Councilor Croteau that 20 year plan was discussed and be placed on file at public hearing.

Motion passed. Committee Vote: 4-0 favorable

Item #3 Minutes - January 13, 2009

Motion made by Councilor Croteau to accept.

Motion Passed. 4-0 favorable

Meeting Adjourned at 8:23 PM

Table 10-1
Recommended Plan Phasing

Tighe&Bond

Phase	Phase Cost	Drainage Area	Area Location	Method Description	Overflow Volume removed (MG)	Cumulative Volume Removed (MG)	Cumulative Volume Removed (%)
1A	\$ 4,140,000	WPCF	Chicopee WPCF	Chlorinate WPCF bypass	42.58	42.58	8.8%
		22/25	Sandy Hill	Separate drainage areas	1.14	43.72	9.0%
		34.3	Montgomery St./ Sheridan St.	CSO structure modification	40.10	83.82	17.3%
		9	Paderewski P.S./Old Field Rd.	Storage at flood P.S. Wet Well	4.93	88.75	18.3%
		4.2	1165 Lower Montgomery St.	CSO structure modification	0.003	88.75	18.3%
1B	\$ 15,660,000	7.1 & 8	Jones Ferry PS, McKinstry St. Area	Drainage Area 7.1 STF	143.19	231.94	47.9%
		1	North Fairview/Britton St. Area	Complete sewer separation	32.26	264.20	54.6%
2A	\$ 21,237,237	31/32.1	Bemis Ave./Broadway St. Area	Sewer Separation	13.18	277.38	57.3%
		8	Upper Granby Road Area	Sewer Separation	2.28	279.66	57.8%
		7.1	McKinstry Avenue/Lorraine Street Area	Sewer Separation	2.58	282.24	58.3%
2B	\$ 15,414,763	31/32.1	Beauchamp Terrace/East St. Area	Sewer Separation	23.11	305.35	63.1%
3	\$ 17,754,000	6	Call P.S., Chicopee, Meadow, Grattan	Sewer Separation	37.15	342.50	70.8%
4	\$ 22,793,500	4.1/4.3	Robert's Pond, Riverview, Pendleton, Yelle	Sewer Separation	28.02	370.52	76.5%
		34.3	Montgomery St./Sheridan St.	Sewer Separation	26.78	397.30	82.1%
5	\$ 14,808,000	24.2/24.5	Hampden St./Front St. Area	Sewer Separation	26.79	424.09	87.6%
		32.2	Walnut St and Broadway	Sewer Separation	5.14	429.23	88.7%
		24.4	Exchange St./South St. Area	Sewer Separation	8.70	437.93	90.5%
6	\$ 30,218,000	3	James Street	Sewer Separation	18.12	456.05	94.2%
		34.1	Montgomery St./Columba St. Area	Sewer Separation	4.67	460.72	95.2%
		27.1/27.3	Newbury, Hafey & Front Streets	Sewer Separation	6.07	466.79	96.4%
7	\$ 16,954,000	5	Leslie P.S./ Silvin St., Mt. Vernon St.	Sewer Separation (see note 2)	3.40	470.19	97.1%
		29	Academy Street/CSO 31.1 (CELD South)	Sewer Separation	0.25	470.44	97.2%
		37	East Main St.	Sewer Separation	0.24	470.68	97.2%
		32.4	Linden & Maple Streets	Sewer Separation (see note 3)	0.14	470.82	97.3%
		9	Paderewski P.S./Old Field Rd.	Sewer Separation	3.48	474.30	98.0%
8	\$ 14,195,000	32.3	Fuller & East Streets	Sewer Separation (see note 3)	0.21	474.51	98.0%
		34.2	Hearthstone Terrace/Bray St.	Sewer Separation	0.13	474.64	98.0%
		26	Bell St. and Front St.	Sewer Separation	0.06	474.70	98.1%
		27.2	Riverview Terrace	Sewer Separation	0.02	474.72	98.1%
		32.5	Belcher St./Walnut St. Area	Sewer Separation (see note 3)	0.04	474.76	98.1%
		24.3	Park, Spruce & School Streets	Sewer Separation	0.01	474.77	98.1%
		7.2	Jones Ferry P.S./Riverdale Road	Sewer Separation (see note 1)	0.92	475.69	98.3%
		8	Lower Granby Road Area	Sewer Separation	8.41	484.10	100.0%

TOTAL: \$163,374,500

Total Overflow:

484.10 219.90

Notes:

- (1) Area 7.2 combined flows may be sent directly to the interceptor if areas 1 & 3 are separated and the diversion structure abandoned.
- (2) Area 5 combined flows may be sent directly to the interceptor if areas 1, 3, and 4.1 are separated and the diversion structure abandoned. Pump Station upgrades would also be required at the Leslie Street Pump Station.
- (3) Areas 32.3, 32.4, and 32.5 combined flows may be sent directly to the interceptor if areas 37, 34.1, 34.3, 32.1, 32.2, and 27 are separated and the diversion structures abandoned.

Recommended Plan Phasing

Phase	Phase Cost	Area Location	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	\$21,237,237	Bemis Ave./Broadway St. Area																
		Upper Granby Road Area																
2	\$15,414,763	McKinstry Avenue/Lorraine Street Area																
		Beauchamp Terrace/East St. Area																
3	\$17,754,000	Call P.S., Chicago, Meadow, Grattan																
4	\$22,793,500	Robert's Pond, Riverview, Pendleton, Yelle																
		Montgomery St./Sheridan St.																
5	\$14,808,000	Hampden St./Front St. Area																
		Walnut St. and Broadway																
		Exchange St./South St. Area																
6	\$30,218,000	James Street																
		Montgomery St./Columbia St. Area																
		Newbury, Haley & Front Streets																
	\$16,954,000	Leslie P.S./Savin St., Mt. Vernon St.																
		Academy Street/CSO 31.1 (CELD South)																
		East Main St.																
		Linden & Maple Streets																
		Podewski P.S./Old Field Rd.																
	\$14,195,000	Fuller & East Streets																
		Hearthstone Terrace/Gray St.																
		Ball St. and Front St.																
		Riverview Terrace																
		Belcher St./Walnut St. Area																
		Park, Spruce & School Streets																
		Jones Ferry P.S./Riverside Road																
		Lower Granby Road Area																

Combined Sewer Overflow (CSO) Long Term Control Plan

Chicopee, Massachusetts Public Meeting #5

April 14, 2009

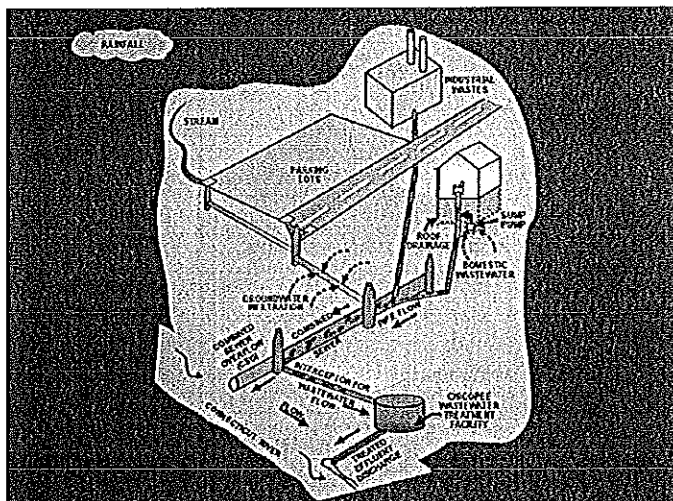
Townsend

Meeting Purpose: The City's CSO Long Term Control Plan

- **Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP)**
 - The City's plan to address necessary and expensive improvements to the City's infrastructure
 - The City's "roadmap" for CSO abatement

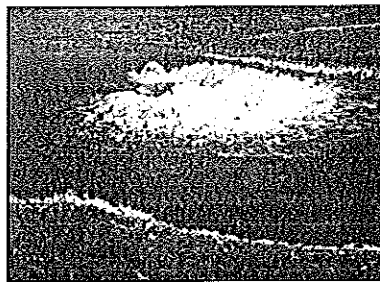
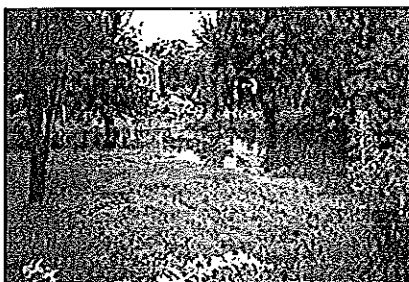
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Why does Chicopee Have CSOs?



Why Are Combined Sewers a Problem?

- **River Water Quality**
 - Massachusetts Water Quality Standards (314 CMR 4.00)
- **System Capacity Problems**
 - Sewer backups into streets and homes



The City's CSO Problem

- 200 Miles of Pipe
- More than half combined sewers
- Interceptor Sewers Along Each River
- 29 Active CSOs (42 Original CSOs)



Extent of the Problem in Chicago

- 220 MG/year of CSO
- 570,000 linear feet of sewer pipe

Area	Sewer Pipe Length (LF)	Annual Volume of CSO (MG)
5	45,750	18.12
4.1	22,100	27.32
4.3	28,800	0.70
5	19,400	3.40
6	60,400	37.15
7.1	43,600	13.27
7.2	14,300	0.82
8	55,000	0.00
9	33,600	3.43
24.1	1,850	---
24.2	8,750	7.90
24.3	1,150	0.01
24.4	13,300	9.70
24.6	21,550	18.69
26	1,950	0.05
27.1	30,250	6.07
27.2	750	0.02
27.3	12,800	---
28	9,550	---
29	1,850	0.25
31	65,600	28.62
32.1	9,000	7.67
32.2	7,450	5.14
32.3	2,300	0.21
32.4	1,200	0.14
32.5	2,100	0.04
32.6	6,500	---
32.7	1,050	---
34.1	15,550	4.67
34.2	2,150	0.13
34.3	25,950	26.78
37	1,800	0.24
Total	587,150	219.89

Purpose of the Screening Components of the LTCP

- **Screening and Selection of CSO Abatement Alternatives**
- **Financial Capability Assessment**
- **Recommended Plan Phasing**

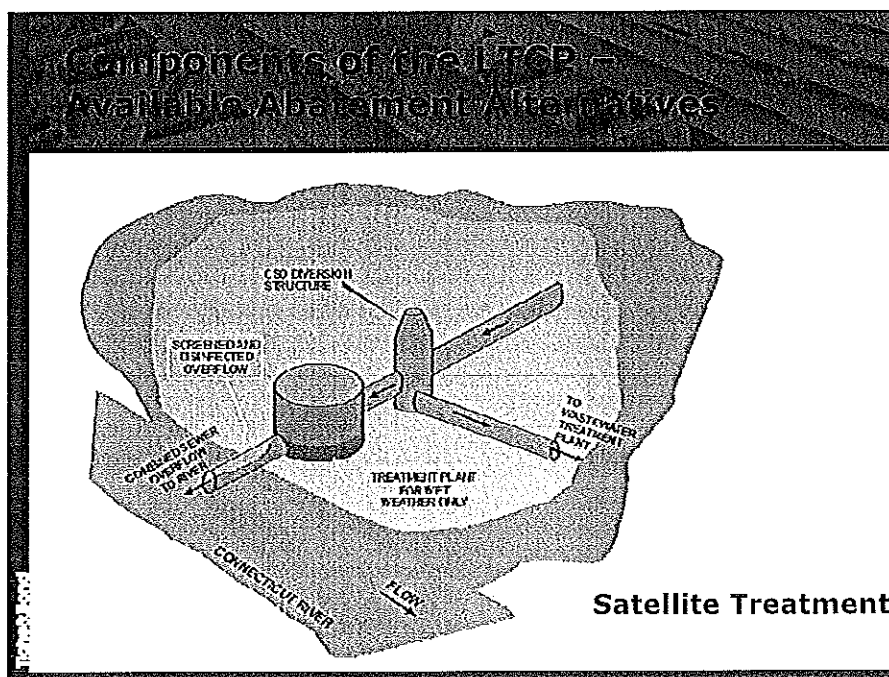
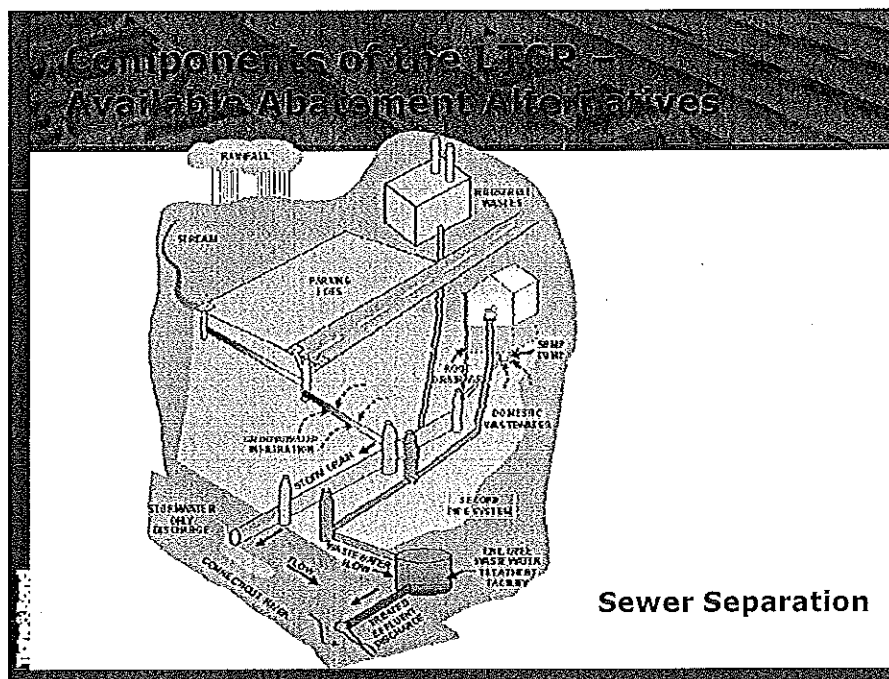
Screening CSO Abatement Alternatives

- **Select viable options for Chicopee**
 - Public education
 - Zoning/d
 - Por
 - Flo
 - Ap

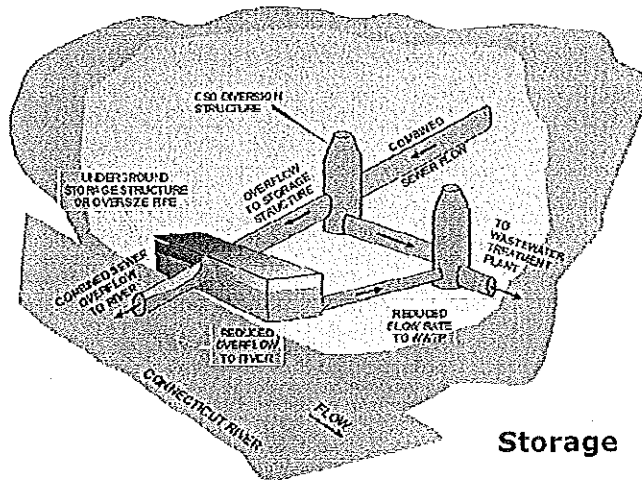
- Sewer Separation
- Storage
- Satellite Treatment
- Hybrid Alternatives

- Comm
- Animal wa

Separation



Components of the LTCP – Available Abatement Alternatives



Components of the LTCP – Screening of Abatement Alternatives

- Select viable options for Chicopee
- Screening-level costs estimated for each alternative

Components of the LTCP Screening of Abatement Alternatives

Area	Total Separation Cost	Storage Cost	Hybrid Alternative Total Cost	Satellite Treatment Total Cost
CONNECTICUT RIVER				
3	\$13,270,000	\$5,678,000	\$8,474,000	\$12,517,415
4.1	\$14,550,500	\$8,209,000	\$10,578,750	\$12,540,657
4.3	Combined with 4.1	Combined with 4.1	Combined with 4.1	Combined with 4.1
5	\$5,784,000	\$2,348,000	\$4,070,000	\$10,529,600
6	\$17,754,000	\$15,494,000	\$16,624,000	\$20,300,287
7.1	\$11,115,000	STP Exits	STP Exits	STP Exits
7.2	\$4,061,000	\$2,348,000	\$3,213,500	\$9,652,690
8	\$20,568,000	Drains to 7.1	\$9,483,000	Drains to 7.1
9	\$9,718,000	\$2,974,000	\$6,345,000	\$11,097,434
CHICOPEE RIVER				
24.1 ¹	\$13,656,000	\$17,210,000	\$15,383,000	\$20,035,439
24.2	Combined with 24.1	Combined with 24.1	Combined with 24.1	Combined with 24.1
24.3	Combined with 24.1	Combined with 24.1	Combined with 24.1	Combined with 24.1
24.4	Combined with 24.1	Combined with 24.1	Combined with 24.1	Combined with 24.1
24.5	Combined with 24.1	Combined with 24.1	Combined with 24.1	Combined with 24.1
26	\$593,000	\$2,348,000	\$1,459,500	\$8,215,955
27.1	\$12,740,000	\$5,493,000	\$8,074,000	\$13,690,643
27.2	Combined with 27.1	Combined with 27.1	Combined with 27.1	Combined with 27.1
27.3 ¹	Combined with 27.1	Combined with 27.1	Combined with 27.1	Combined with 27.1
28 ²	\$2,774,000	No regulator	No regulator	No regulator
29	\$21,601,000	\$15,385,000	\$18,423,500	\$14,453,655
31.1 ¹	Combined with 29	Combined with 29	Combined with 29	Combined with 29
31.3 ¹	Combined with 29	Combined with 29	Combined with 29	Combined with 29
32.1	\$9,244,500	\$5,088,000	\$8,116,250	\$15,026,041
32.2	Combined with 32.1	Combined with 32.1	Combined with 32.1	Combined with 32.1
32.3	Combined with 32.1	Combined with 32.1	Combined with 32.1	Combined with 32.1
32.4	Combined with 32.1	Combined with 32.1	Combined with 32.1	Combined with 32.1
32.5	Combined with 32.1	Combined with 32.1	Combined with 32.1	Combined with 32.1
32.6 ¹	Combined with 32.1	Combined with 32.1	Combined with 32.1	Combined with 32.1
32.7 ²	Combined with 32.1	Combined with 32.1	Combined with 32.1	Combined with 32.1
34.1	\$12,920,000	\$14,070,000	\$13,496,000	\$18,155,101
34.2	Combined with 34.1	Combined with 34.1	Combined with 34.1	Combined with 34.1
34.3 ¹	Combined with 34.1	Combined with 34.1	Combined with 34.1	Combined with 34.1
37	\$531,000	\$2,348,000	\$1,433,500	\$8,452,879
Totals	\$171,210,000	\$99,891,000	\$127,260,000	\$177,007,292

Financial Capability Assessment (FCA)

- FCA determines the "buying power" of the City
- Determined by a specific, step-by-step process developed by EPA for estimating the financial impacts of a LTCP on a community
- EPA considers 2% of MHI to be benchmark of acceptable financial impact for Chicopee

Financial Capability Assessment (FCA)

- 2% MHI in today's dollars is an estimated annual household cost of \$894
- Buying power: \$158,700,000 (20-Yr. Plan)
- Recommended Plan: \$887/year
- This max. cost will occur from 2023-2025 and represents approximately 1.98% MHI

Tribal Land

Components of the LTGP – Levels of CSO Control

1

NO CSOs - Class B

2

No CSOs at all but 1 or 2 CSO regulators with remaining active CSOs limited to four or fewer untreated discharges per year - Class B(CSO)

3

CSO discharge from all regulators to the river limited to four or fewer untreated discharges per year - Class B(CSO)

4

More than four untreated CSO discharges per year from some or all of the CSO regulators - Requires downgrading of the river to Class C

Tribal Land

Development of Recommended Plan

■ Selection of Abatement Alternatives and Development of a Recommended Plan

- Develop and Consider 20-Year and 30-Year Plans
- Levels of Control Achieved by Each Plan vs. Cost

River	20-Year Plan	30-Year Plan
Chicopee	Level 1	Level 1
Connecticut	Level 2*	Level 1

* CSO 7.1 remains

Development of Recommended Plan

■ Recommended Plan Alternatives

Plan	Duration (Years)	Level of Control	Linear Feet of Sewer Separated	Cost (Million \$)
Total Separation	30	Level 1 (No CSOs)	567,000	\$171.2
Strategic Separation	20	Level 2 (1 CSO)	505,000	\$153.4
Lowest Cost	20	Level 3 (20 CSOs)	111,000	\$98.4
Lowest Cost if not 'High Priority'	20	Level 3 (14 CSOs)	266,000	\$125.4

Recommended Plan Phasing Criteria

- Average annual volume of combined sewage discharged by the CSO (million gallons)
- Cost effectiveness of the project (\$/million gallons of CSO abated)
- Status as a 'high priority' drainage area owing to frequent sewer backups

Recommended Plan Phasing

Phase	Phase Cost	Drainage Area	Area Location	Method Description	Overflow Volume removed (MG)	Cost Effectiveness (\$/MG)
1	\$ 21,237,237	31/22.1	East Ave./Broadway St. Area	Sewer Separation	13.18	\$ 666,482
		8	Upper Crayby Road Area	Sewer Separation	2.28	\$ 4,159,211
		7.1	McGrady Avenue/Lorraine Street Area	Sewer Separation	2.58	\$ 1,191,183
2B	\$ 15,414,783	31/22.1	Deuchamp Terrace East St. Area	Sewer Separation	23.11	\$ 667,017
2	\$ 17,324,000	8	Carl P. B., Chickadee, Meadow, Grafton	Sewer Separation	37.15	\$ 477,900
4	\$ 22,783,500	4.1/1.3	Robert's Pond, RiverView, Pendleton, Yale	Sewer Separation	28.02	\$ 533,565
		24.3	Montgomery Bl./Riverside St.	Sewer Separation	24.78	\$ 292,268
5	\$ 14,804,000	21.2/21.5	Harnden St./Front St. Area	Sewer Separation	23.79	\$ 331,000
		32.2	Winful St. and Broadway	Sewer Separation	5.14	\$ 414,202
		24.4	Exchange St./South St. Area	Sewer Separation	8.70	\$ 438,103
		5	James Street	Sewer Separation	18.15	\$ 330,340
6	\$ 30,216,000	34.1	Montgomery Bl./Columbia Bl. Area	Sewer Separation	4.67	\$ 652,483
		27.1/27.3	Newbury, Valley & Front Streets	Sewer Separation	6.07	\$ 2,069,308
7	\$ 16,954,000	5	Lewis P.B./Bryn St., Mt. Vernon St.	Sewer Separation (see note 2)	3.40	\$ 1,724,115
		29	Academy Street/CD 31.1 (CFLD 60-0)	Sewer Separation	0.25	\$ 2,260,000
		37	East Main St.	Sewer Separation	0.24	\$ 2,212,500
		32.4	Under & Maple Streets	Sewer Separation (see note 3)	0.14	\$ 2,471,429
		9	Pedernault P.B. and Field Rd.	Sewer Separation	3.49	\$ 2,792,520
		32.3	Tulley & East Streets	Sewer Separation (see note 3)	0.21	\$ 3,195,238
8	\$ 14,195,000	31.2	Heathstone Terrace Bay St.	Sewer Separation	0.13	\$ 4,838,462
		24	Carl St. and Front St.	Sewer Separation	0.09	\$ 6,833,333
		27.2	RiverView Terrace	Sewer Separation	0.02	\$ 12,000,000
		32.5	Belcher St./Winful St. Area	Sewer Separation (see note 3)	0.04	\$ 15,375,000
		24.3	Park, Spruce & School Streets	Sewer Separation	0.01	\$ 33,200,000
		7.2	Jones Ferry P.B. and Riverside Road	Direct Connection (see note 1)	0.92	\$ 32,609
		8	Lower Crayby Road Area	Sewer Separation	8.41	\$ 1,518,074
		TOTAL: \$193,485,650				